

New US Patent Application Filed August 11, 2006
Preliminary Amendment

Amendments to the Claims

Please cancel claims 1-31, without prejudice, after adding newly presented claims 32-53 below.

1-13. (Canceled)

14. (New) A mixing device for mixing gas and combustion air for a gas burner, it being possible for a mixture of gas and combustion air that is provided by the mixing device to be fed to the gas burner by means of a blower, said mixing device comprising:

a housing; and

a venturi nozzle, wherein the venturi nozzle is integrated in the housing in such a way that the housing and the venturi nozzle are formed as a monolithic unit.

15. (New) The mixing device of claim 14, wherein the monolithic unit is formed from plastic.

16. (New) The mixing device of claim 14, wherein the monolithic unit forms a flow duct for gas and combustion air, it being possible for combustion air to be sucked in at an inlet opening of the monolithic unit, the blower acting at an outlet opening of the monolithic unit, and the blower providing a suction pressure to suck in the mixture of gas and combustion air through the outlet opening.

17. (New) The mixing device of claim 16, wherein the monolithic unit is formed from plastic, and is fastened to a metallic supporting plate of the blower.

18. (New) The mixing device of claim 17, wherein the monolithic unit is fastened to the supporting plate of the blower via of a quick-acting closure.

19. (New) The mixing device of claim 18, wherein the quick-acting closure is formed as a bayonet closure, with an end on an outlet side of the monolithic unit being

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assigned projections, which can be introduced into corresponding recesses of the supporting plate of the blower, and which releasably fasten the monolithic unit to the supporting plate of the blower after the monolithic unit and the supporting plate have been turned in relation to each other.

20 (New) The mixing device of claim 17, wherein the fastening of the monolithic unit to the metallic supporting plate of the blower includes a sealing element.

21. (New) The mixing device of claim 16, further comprising:
a gas regulating device fastened relative to the monolithic unit, the gas regulating device including a gas outlet stub that is insertable into a corresponding recess in the monolithic unit.

22. (New) The mixing device of claim 21, wherein the gas regulating device is fastened to the monolithic unit via a quick-acting closure.

23. (New) The mixing device of claim 22, wherein the quick-acting closure includes:

a snap closure having a securing clip, assigned to the monolithic unit, that grips at least partially around the gas outlet stub after the gas regulating device has been inserted into the recess of the monolithic unit, in order to releasably fasten the gas regulating device to the monolithic unit.

24. (New) The mixing device of claim 21, wherein the fastening of the gas regulating device relative to the monolithic unit includes a sealing element.

25. (New) The mixing device of claim 21, wherein the recess in the monolithic unit is arranged between the inlet opening and the outlet opening of the flow duct formed by the monolithic unit.

26. (New) A gas burner, comprising:

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a combustion chamber;
a mixing device adapted to mix gas and combustion air, the mixing device including a housing and a venturi nozzle, wherein the venturi nozzle is integrated in the housing in such a way that the housing and the venturi nozzle are formed as a monolithic unit;
a blower; and
the blower, when activated, acting on the mixing device to suck in a mixture of gas and combustion air provided by the mixing device and feeding the mixture to the combustion chamber.

27. (New) The gas burner of claim 26 wherein the monolithic unit of the mixing device forms a flow duct for gas and combustion air, where the combustion air is sucked in at an inlet opening of the monolithic unit and a mixture of gas and combustion air is provided through an outlet opening of the monolithic opening.

28. (New) The gas burner of claim 27 wherein the blower acts at the outlet opening of the monolithic unit by providing a suction pressure to suck in the mixture of gas and combustion air through the outlet opening of the monolithic unit and providing the mixture to the combustion chamber.

29. (New) The gas burner of claim 27 further comprising:
a gas regulating device fastened to the monolithic unit, the gas regulating device including a gas outlet stub that is insertable into a corresponding recess in the monolithic unit, wherein the recess is in fluid communication with the flow duct of the monolithic unit.

30. (New) The gas burner of claim 29 wherein the monolithic unit is fastened to the blower via a quick-acting closure.

31. (New) The mixing device of claim 30, wherein the quick-acting closure is a bayonet closure.

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32. (New) The gas burner of claim 29 wherein the monolithic unit is fastened to the blower via a quick-acting closure.

33. (New) The mixing device of claim 32, wherein the quick-acting closure is a snap closure having a securing clip.

34. (New) A mixing device for mixing gas and combustion air for a gas burner, said mixing device comprising:

a housing, the housing having side walls that define a venturi nozzle that forms a flow duct, the flow duct having an inlet opening for accepting combustion air and an outlet opening for providing a mixture of gas and combustion air; and

a gas inlet opening extending through a side wall of the housing, the gas inlet opening defining a recess for receiving a gas outlet stub of a gas regulating device.